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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/778,020	02/17/2004	Hitoshi Tsuchiya	118489	6177
25944	7590	10/18/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			NGUYEN, THANH NHAN P	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 10/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

EK

Office Action Summary	Application No.	Applicant(s)	
	10/778,020	TSUCHIYA, HITOSHI	
	Examiner	Art Unit	
	(Nancy) Thanh-Nhan P. Nguyen	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 4 is/are rejected.
- 7) ☒ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This communication is responsive to Amendment dated 8/3/2005.

Claims 1-4 are pending for the examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogishima et al U.S. Patent Application Publication No. 2002/0149728.

Referring to claim 1, Ogishima et al discloses a liquid crystal display device in figs. 33A-33B, comprising:

- a pair of substrates;
- a liquid crystal layer (330) sandwiched between the pair of substrates, the liquid crystal layer including liquid crystal with negative dielectric anisotropy;
- dot areas, each dot area having a reflective display area and at least two transmissive display areas;
- an adjusting layer (313) provided between the liquid crystal layer and at least one substrate of the pair of substrates, the adjusting layer making a thickness of the liquid crystal layer different in the reflective display area and the

transmissive display areas and being provided at least in the reflective display area; and

- an alignment restrictor (316) making the liquid crystal molecules in the transmissive display areas tilt, the tilting direction of the liquid crystal molecules being opposite to each other in the two transmissive display areas (considered the transmission area A having liquid crystal molecules tilt opposite the direction of the liquid crystal molecules in the transmission area D; and the transmission area B having liquid crystal molecules tilt opposite the direction of the liquid crystal molecules in the transmission area C; see fig. 33B from the attachment – emphasis added), the alignment restrictor making liquid crystal molecules of the liquid crystal layer tilt in the same direction in the reflective display (since the liquid crystal display device of Ogishima et al is a liquid crystal display device of a vertical orientation mode in which the liquid crystal layer is substantially in a vertical orientation state under application of no voltage, the liquid crystal molecules tilt in same direction (substantially vertical to the substrates) in the reflective display area; see fig. 33B from the attachment – emphasis added -- and par. 0033 from the reference].

Referring to claim 2, Ogishima et al discloses:

- the adjusting layer having a slope (306) in the vicinity of a boundary between the reflective display area and the transmissive display areas;
- an electrode (322, 312 (312t, 312r)) that drives the liquid crystal being provided on each internal surface of the pair of substrates;

- and the alignment restrictor (316) having at least one of a slit opening and a projection formed in the electrode (312t), [see fig. 33B].

Referring to claim 4, a personal computer could include the liquid crystal display device according to claim 1 for having a wide viewing angle characteristic and high display quality, [see pars. 0001-0002].

Allowable Subject Matter

Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

None of prior art taught or disclosed a transfective liquid crystal display device comprising:

- dot areas, each dot area having a reflective display area and at least two transmissive display areas;
- in a first transmissive display area of two transmissive display areas in each dot area, the substrate with the adjusting layer has an opening in the electrode on the slope of the adjusting layer, and the other substrate has an opening or a projection in the electrode in a substantially central portion of the first transmissive display area;

- and in a second transmissive display area of the two t transmissive display areas in each dot area, the substrate with the adjusting layer has an opening or a projection in the electrode in a substantially central portion of the second transmissive display area, and the other substrate has an opening or a projection in the electrode in a portion-corresponding to a slope of the adjusting layer.

Response to Arguments

Applicant's arguments filed 8/3/2005 have been fully considered but they are not persuasive. Therefore, the previous office action rejection has been maintained. Examiner also provides an attachment in this office action for better view of the explanation in the rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P. Nguyen
Examiner
Art Unit 2871
-- October 12, 2005 --

TN



ANDREW SCHECHTER
PRIMARY EXAMINER

FIG. 33A

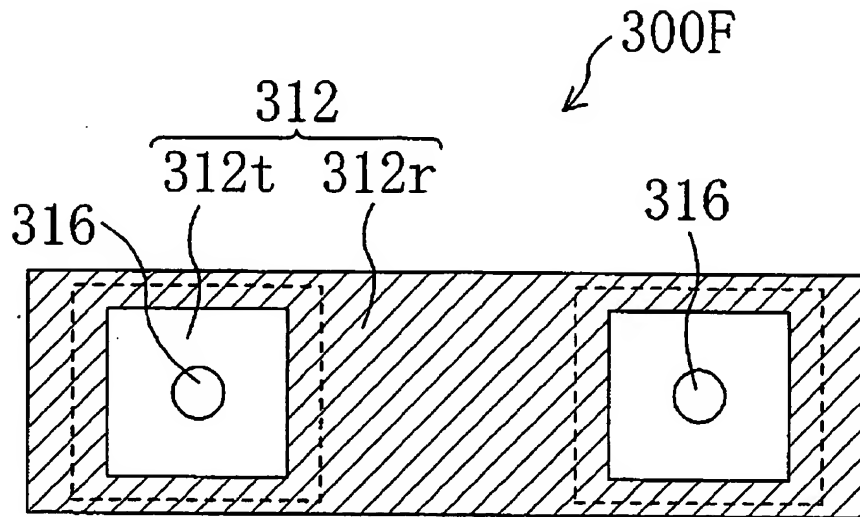


FIG. 33B

